

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	B. Raghava Reddy; Frank Zamora;	)	
	Ronney R. Koch; Joe M. Sandy and	)	
	Ian D. Robb	)	Art Unit: Unknown
		)	
Serial No.:	unknown	)	
		)	
Filed:	concurrently herewith	)	Examiner: Unknown
		)	
For:	WELL BORE SERVICING FLUIDS	)	
	COMPRISING THERMALLY ACTIVATED)	)	
	VISCOSIFICATION COMPOUNDS AND	)	
	METHODS OF USING THE SAME	)	

**INFORMATION DISCLOSURE STATEMENT**

ASSISTANT COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

**U. S. PATENTS**

U.S. Patent No. 2,281,810 issued May 5, 1942 to John R. Stone et al.

U.S. Patent No. 3,202,214 issued August 24, 1965 to Homer C. McLaughlin, Jr.

U.S. Patent No. 3,375,872 issued April 2, 1968 to H.C. McLaughlin, Jr. et al.

U.S. Patent No. 4,293,440 issued October 6, 1981 to Eugene A. Elphingstone et al.

U.S. Patent No. 4,552,215 issued November 12, 1985 to Stephen W. Almond et al.

U.S. Patent No. 4,553,601 issued November 19, 1985 to Stephen W. Almond et al.

U.S. Patent No. 4,640,361 issued February 3, 1987 to William H. Smith et al.

U.S. Patent No. 4,997,487 issued March 5, 1991 to Edward F. Vinson et al.

U.S. Patent No. 5,104,954 issued April 14, 1992 to Karl F. Mueller.

U.S. Patent No. 5,135,577 issued August 4, 1992 to Lance E. Brothers et al.

U.S. Patent No. 5,432,245 issued July 11, 1995 to Michael R. Roberts et al.

U.S. Patent No. 5,558,161 issued September 24, 1996 to Sanjay M. Vitthal et al.

U.S. Patent No. 5,913,364 issued June 22, 1999 to Ronald E. Sweatman.

U.S. Patent No. 5,945,387 issued August 31, 1999 to Jiten Chatterji et al.

U.S. Patent No. 5,968,879 issued October 19, 1999 to David D. Onan et al.

U.S. Patent No. 6,059,036 issued May 9, 2000 to Jiten Chatterji et al.

U.S. Patent No. 6,060,434 issued May 9, 2000 to Ronald E. Sweatman et al.

U.S. Patent No. 6,167,967 B1 issued January 2, 2001 to Ronald E. Sweatman.

U.S. Patent No. 6,194,356 B1 issued February 27, 2001 to Timothy G. J. Jones et al.

U.S. Patent No. 6,258,757 B1 issued July 10, 2001 to Ronald E. Sweatman et al.

U.S. Patent No. 6,444,316 B1 issued September 3, 2002 to Baireddy R. Reddy et al.

U.S. Patent No. 6,527,051 B1 issued March 4, 2003 to Baireddy R. Reddy et al.

U.S. Patent No. 6,554,071 B1 issued April 29, 2003 to Baireddy R. Reddy et al.

U.S. Patent No. 6,660,694 B1 issued December 9, 2003 to Kevin C. Taylor et al.

#### **FOREIGN PATENTS**

PCT Patent Application Number WO 00/73623 A1 published December 7, 2000.

#### **OTHER PUBLICATIONS**

Paper entitled "Thermoreversible Hydrogel of Short-Chain 0-(2,3 Dihydroxypropyl)cellulose/Borax Aqueous Solution, Microscopic versus Macroscopic Properties" by Nobuhiro Ide et al., dated April 1998.

Paper entitled “Designing new thermoreversible gels by molecular tailoring of hydrophilic-hydrophobic interactions” by S. Varghese et al., dated October 1999.

Paper entitled “Ca<sup>2+</sup>-induced Thermoreversible and Controllable Complexation of Poly(*N*-vinylcaprolactam-*co*-sodium acrylate) Microgels in Water” by Shufu Peng et al., dated November 2000.

Paper entitled “Phase Diagrams of Nonionic Polymer-Water Systems. Experimental And Theoretical Studies of the Effects of Surfactants and Other Cosolutes”, by Gunnar Karlström et al., dated 1990.

Ethyl(hydroxyethyl)cellulose-Cationic Surfactant Interactions: Electrical Conductivity, Self-Diffusion, and Time-Resolved Fluorescence Quenching Investigations”, by R. Zana et al., dated 1992.

Paper entitled “Characterization of the Interaction between a Nonionic Polymer and a Cationic Surfactant by the Fourier Transform NMR Self-Diffusion Technique”, by Anders Carlsson et al, dated 1989.

Paper entitled “Thermal Gelation of Nonionic Cellulose Ethers and Ionic Surfactants in Water”, by Anders Carlsson et al., dated 1990.

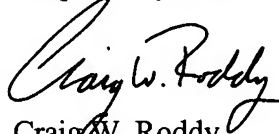
Paper entitled “Interaction between ethyl(hydroxyethyl)cellulose and sodium dodecyl sulphate in aqueous solution”, by A. Carlsson et al., dated 1988.

Paper entitled “Polymer-Surfactant Interactions. Binding of N-Tetradecylpridinium Bromide to Ethyl(hydroxethyl)cellulose”, by Anders Carlsson et al., dated 1989.

Paper entitled "Association and Thermal Gelation in Mixtures of Hydrophobically Modified Polyelectrolytes and Nonionic Surfactants", by Anne Sarrazin-Cartlas et al., dated 1994.

Copies of the non-patented references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

A handwritten signature in black ink, reading "Craig W. Roddy". The signature is fluid and cursive, with the first name "Craig" being the most prominent.

Craig W. Roddy  
Registration No. 36,256  
Halliburton Energy Services  
P. O. Box 1431  
Duncan, OK 73536-0440  
580-251-3012

<b>FORM PTO-1449 (Modified)</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> 2002-IP-009337U1	<b>SERIAL NO.</b> unknown
	<b>APPLICANT</b> B. Raghava Reddy et al.	
	<b>FILING DATE</b> concurrently herewith	<b>GROUP</b> Unknown

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	2,281,810	05/05/42	Stone et al.	61	36	
	AB	3,202,214	08/24/65	McLaughlin, Jr.	166	30	
	AC	3,375,872	04/02/68	McLaughlin et al.			
	AD	4,293,440	10/06/81	Elphinstone et al.	252	317	
	AE	4,552,215	11/12/85	Almond et al.	166	278	
	AF	4,553,601	11/19/85	Almond et al.	166	308	
	AG	4,640,361	02/03/87	Smith et al.	166	288	
	AH	4,997,487	03/05/91	Vinson et al.	106	804	
	AI	5,104,954	04/14/92	Mueller	526	307.7	
	AJ	5,135,577	08/04/92	Brothers	106	724	
	AK	5,432,245	07/11/95	Roberts et al.	427	385.5	

## FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL	WO 00/73623 A1	12/07/00	PCT	E21B	43/25	X	
	AM							
	AN							
	AO							
	AP							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Paper entitled "Thermoreversible Hydrogel of Short-Chain 0-(2,3 Dihydroxypropyl)cellulose/Borax Aqueous Solution, Microscopic versus. Macroscopic Properties" by Nobuhiro Ide et al., dated April 1998
	AS	Paper entitled "Designing new thermoreversible gels by molecular tailoring of hydrophilic-hydrophobic interactions" by S. Varghese et al., dated October 1999.
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EXAMINER INITIAL		Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	AA	5,558,161	09/24/96	Vitthal et al.	166	280	
	AB	5,913,364	06/22/99	Sweatman	166	281	
	AC	5,945,387	08/31/99	Chatterji et al.	507	224	
	AD	5,968,879	10/19/99	Onan et al.	507	202	
	AE	6,059,036	05/09/00	Chatterji et al.	166	294	
	AF	6,060,434	05/09/00	Sweatman et al.	507	216	
	AG	6,167,967 B1	01/02/01	Sweatman	166	281	
	AH	6,194,356 B1	02/27/01	Jones et al.	507	225	
	AI	6,258,757 B1	07/10/01	Sweatman et al.	507	219	
	AJ	6,444,316 B1	09/03/02	Reddy et al.	428	407	
	AK	6,527,051 B1	03/04/03	Reddy et al.	166	300	

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	AA	6,554,071 B1	04/29/03	Reddy et al.	166	293	
	AB	6,660,694 B1	12/09/03	Taylor et al.	507	237	
	AC						
	AD						
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	AH						
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